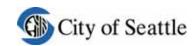


Alaskan Way Viaduct and Seawall Replacement Project

Seattle City Council Transportation Committee

August 8, 2006



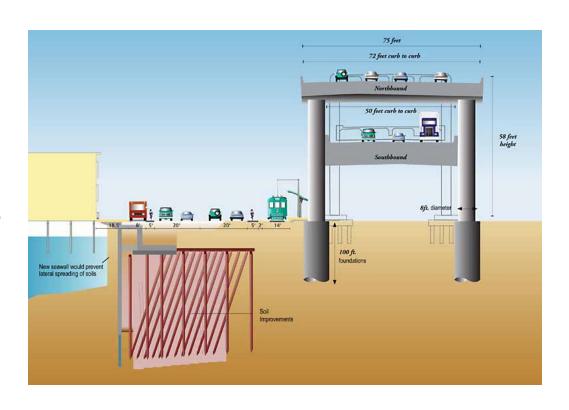






Why Look at Different Structures?

If we build another elevated structure, how can we make it the best structure possible?





What Do We Know Today?

- Most promising structure types
- Location of new structure on waterfront, including span lengths and column locations
- Location of surface Alaskan Way on waterfront
- Connection to Battery Street Tunnel and south end ramps



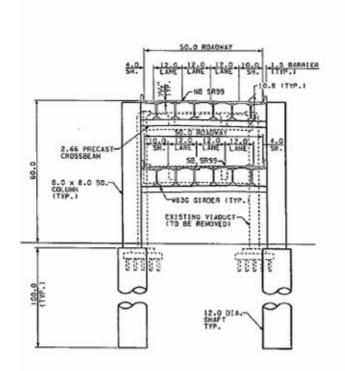


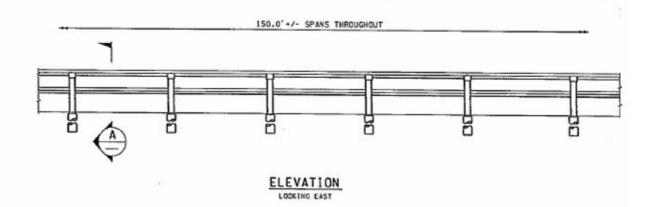
Elevated Structure Options

- 1. Prestressed Concrete Girders
- 2. Steel Box Girders
- 3. Cable Stayed (single tower)
- 4. Cable Stayed (double towers)
- 5. Cable Stayed with Steel Truss (double towers)
- 6. Steel Truss with Steel Box Approaches
- 7. Concrete Segmental Box Girders
- 8. Extrados Cable Stayed/Concrete Segmental
- Prestressed Concrete Girders with Park Lid



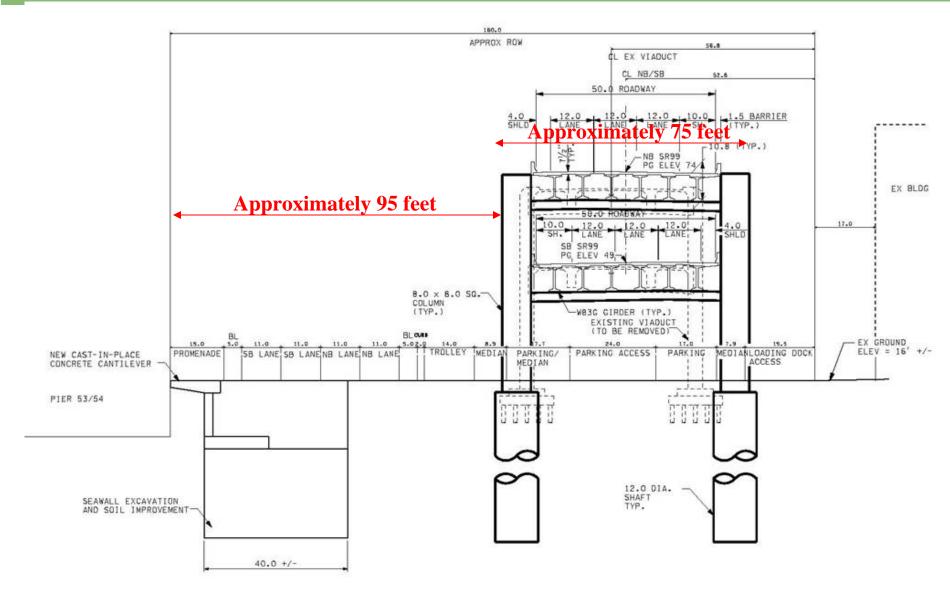
Option 1: Concrete Structure





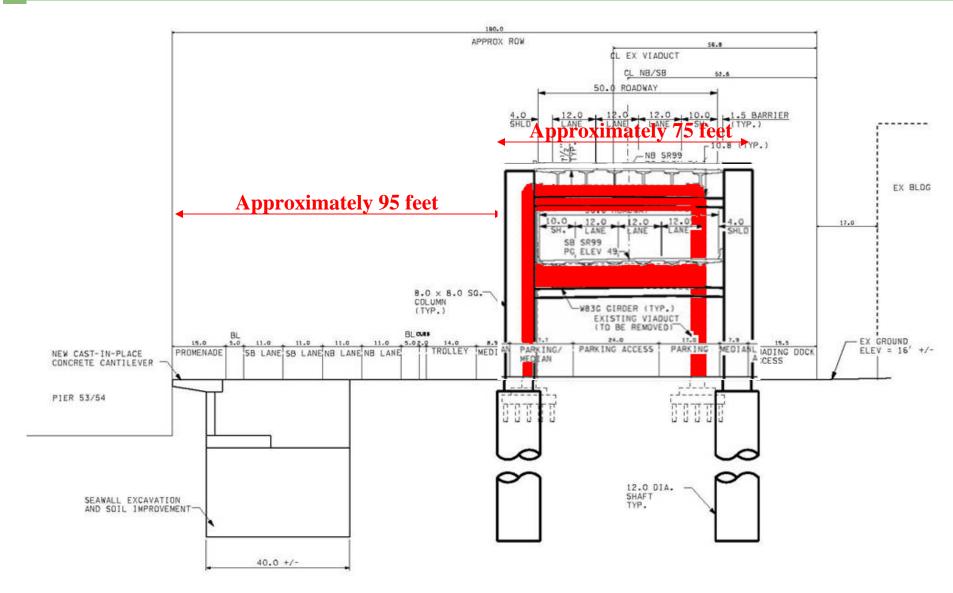


Option 1 at Madison Street





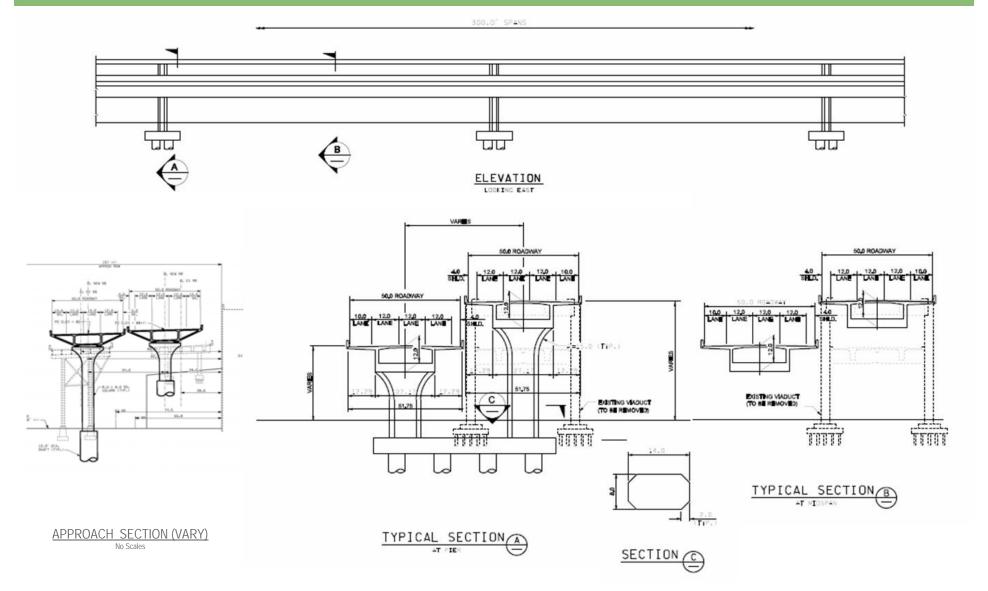
Option 1 at Madison Street





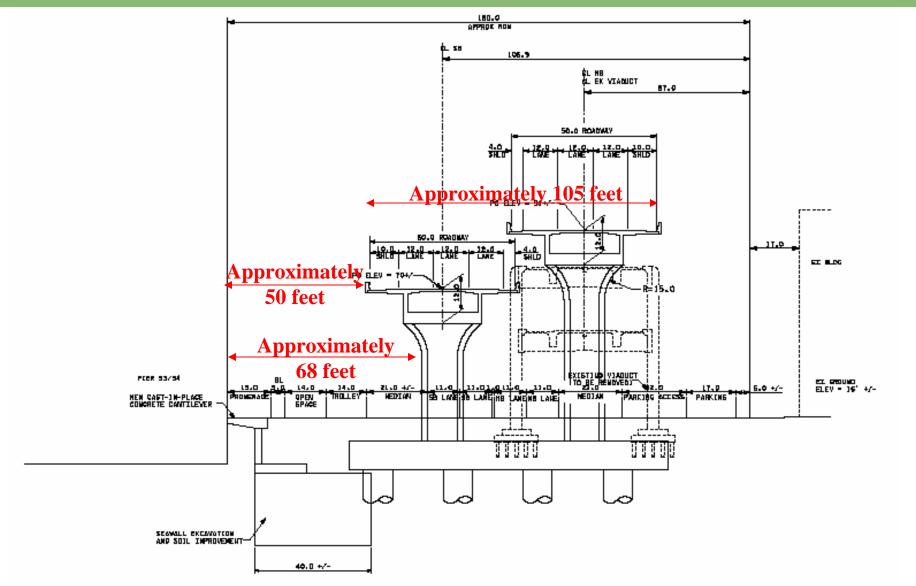


Option 7: Concrete Segmental Box Girders



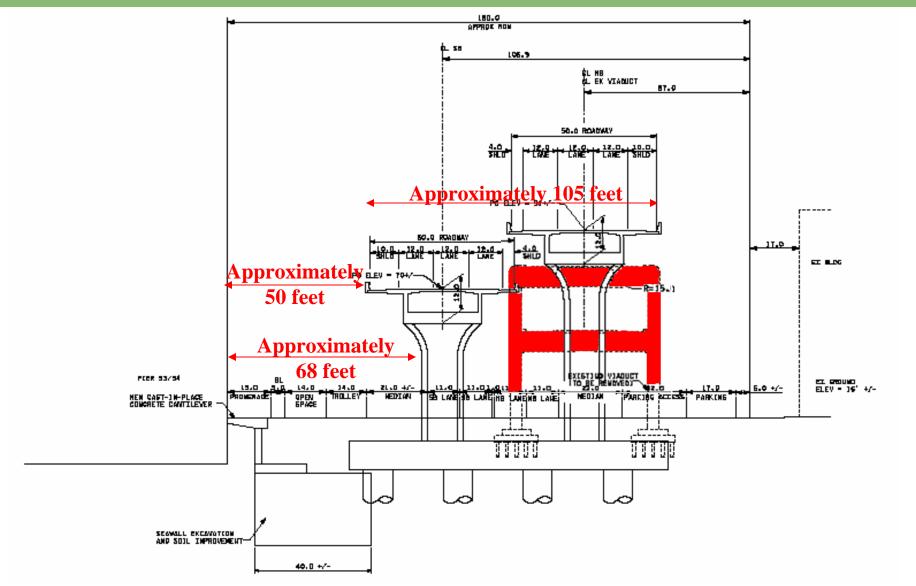


Option 7 at Madison Street





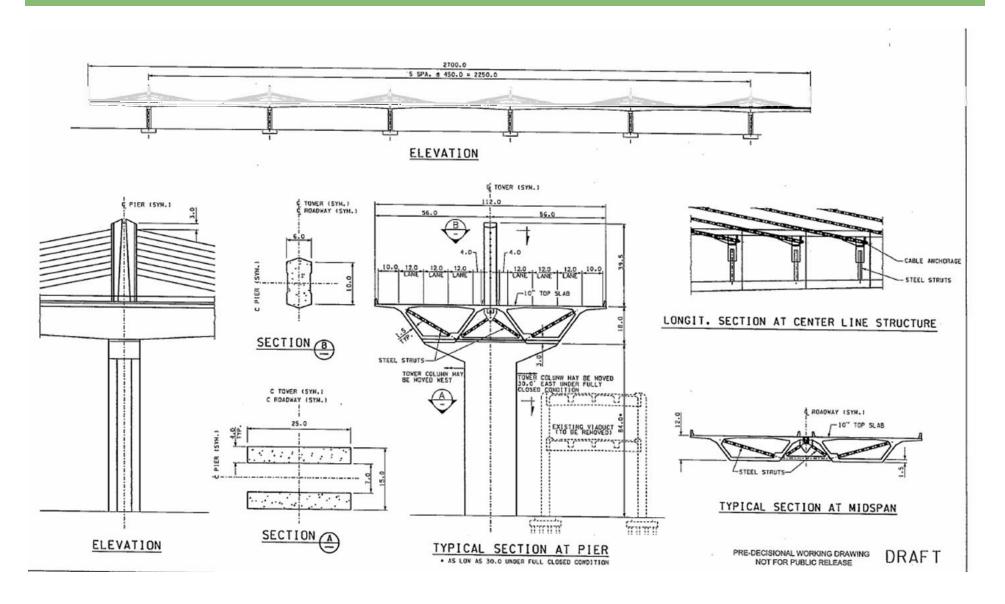
Option 7 at Madison Street





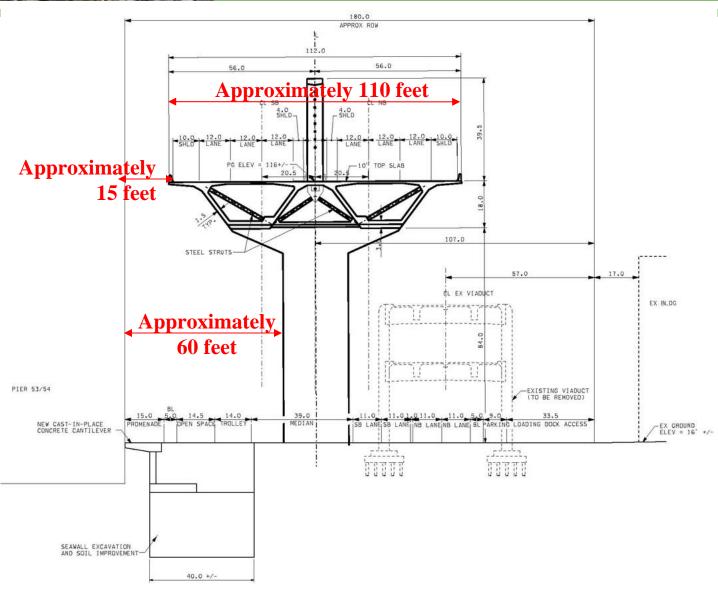


Option 8: Extrados Cable Stayed/Concrete Segmental



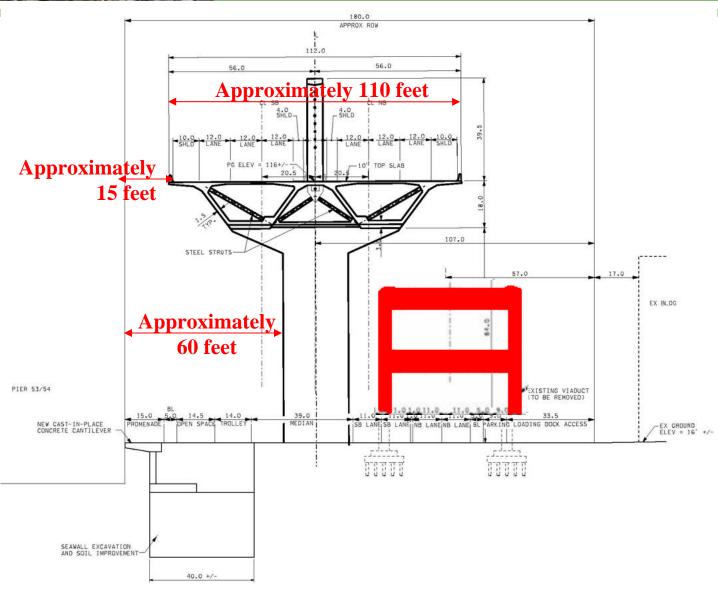


Option 8 at Madison Street





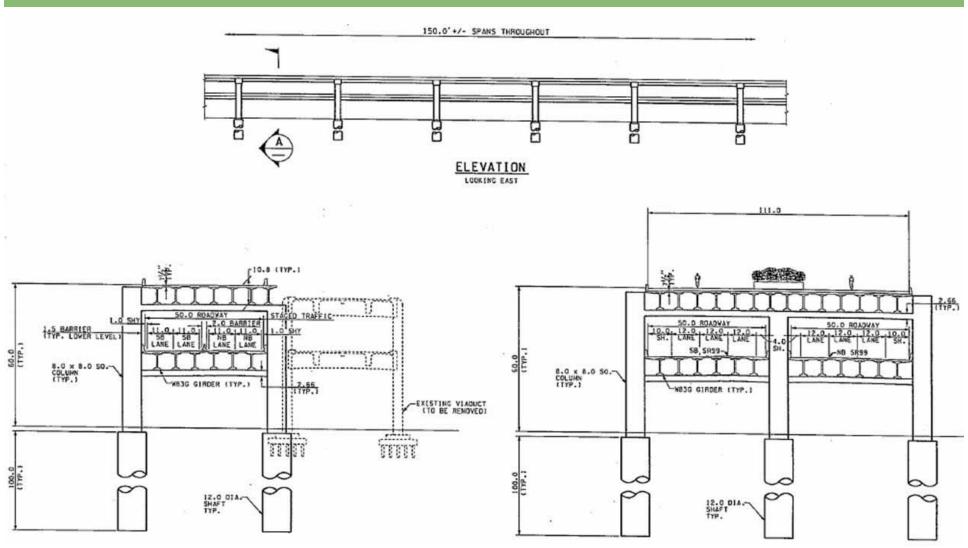
Option 8 at Madison Street





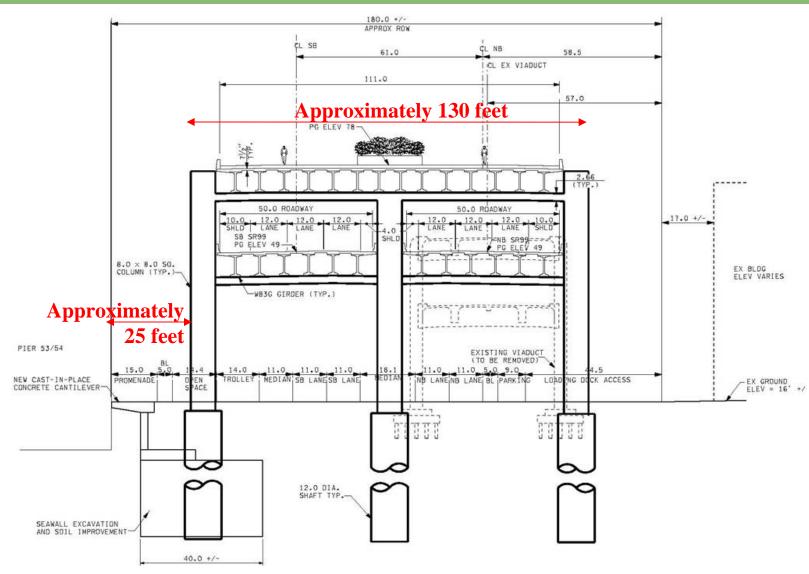


Option 9: Concrete Girders with Park Lid



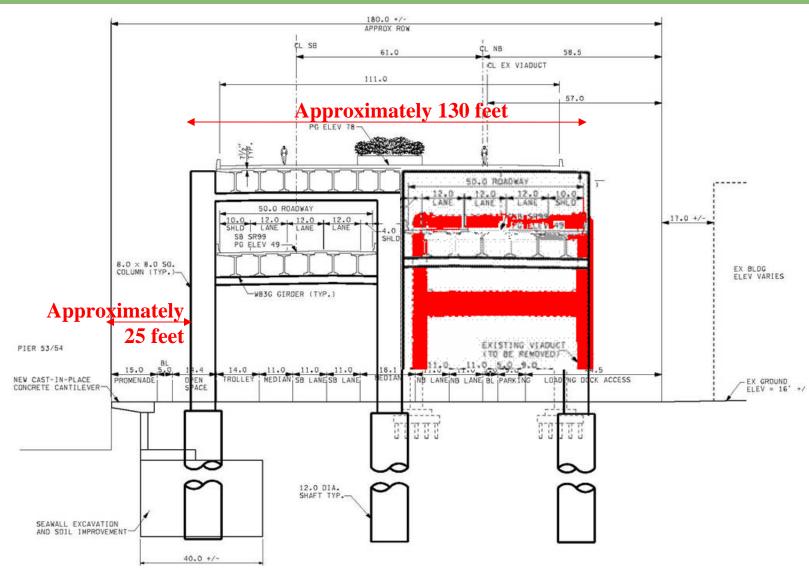


Option 9 at Madison Street

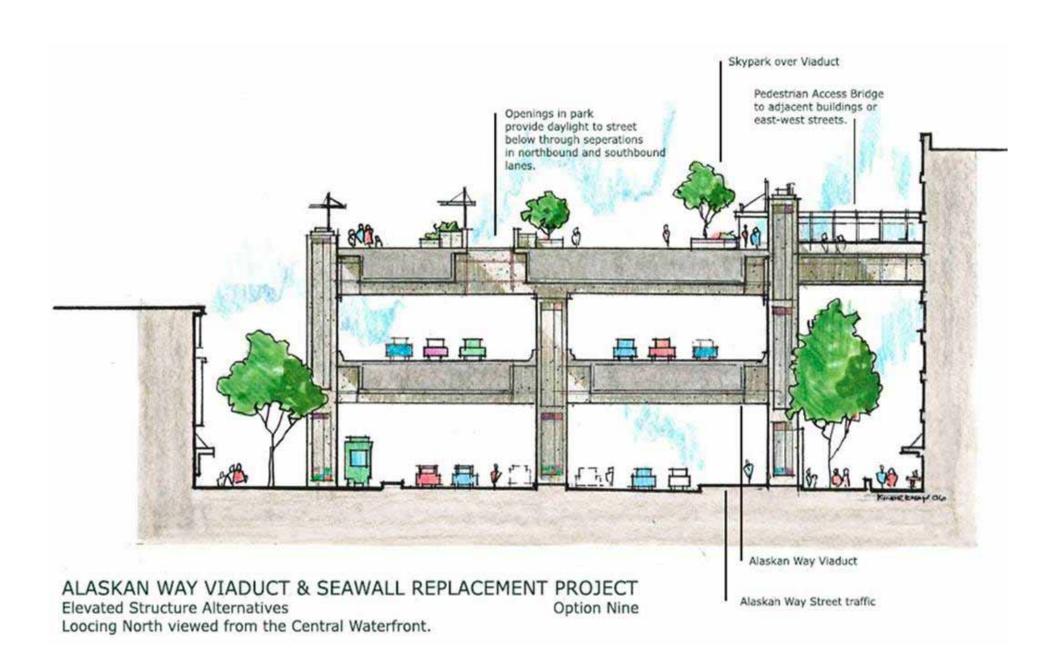




Option 9 at Madison Street



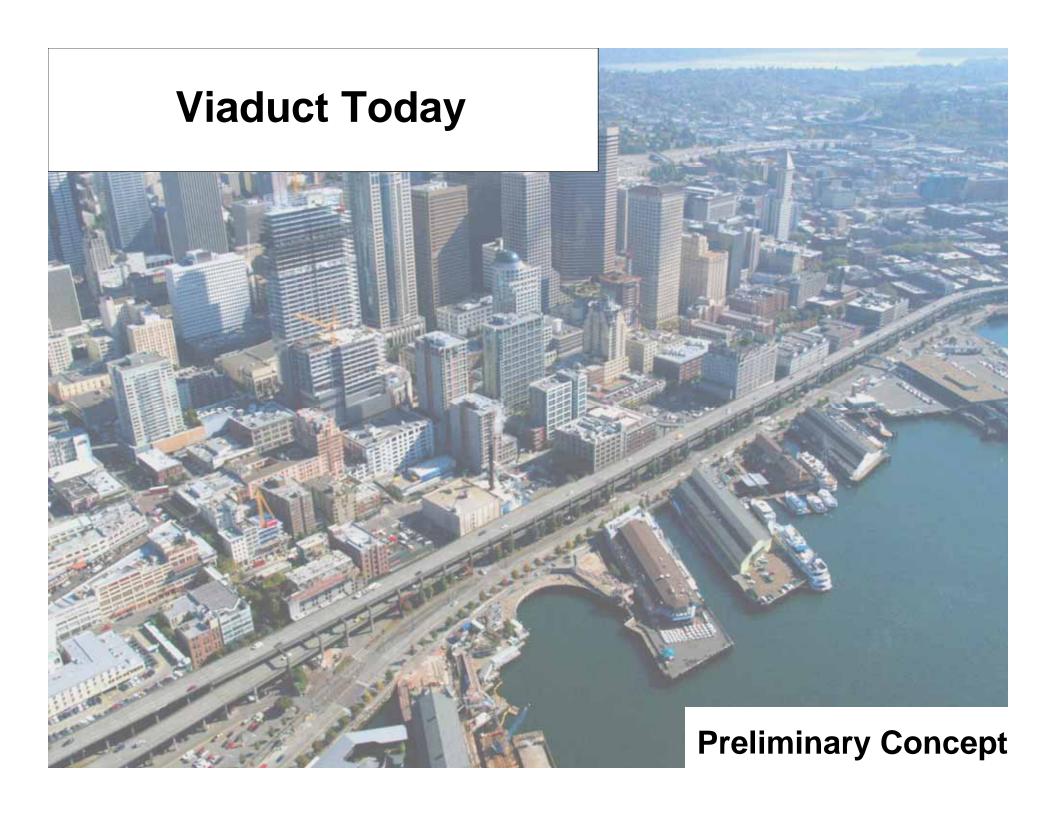




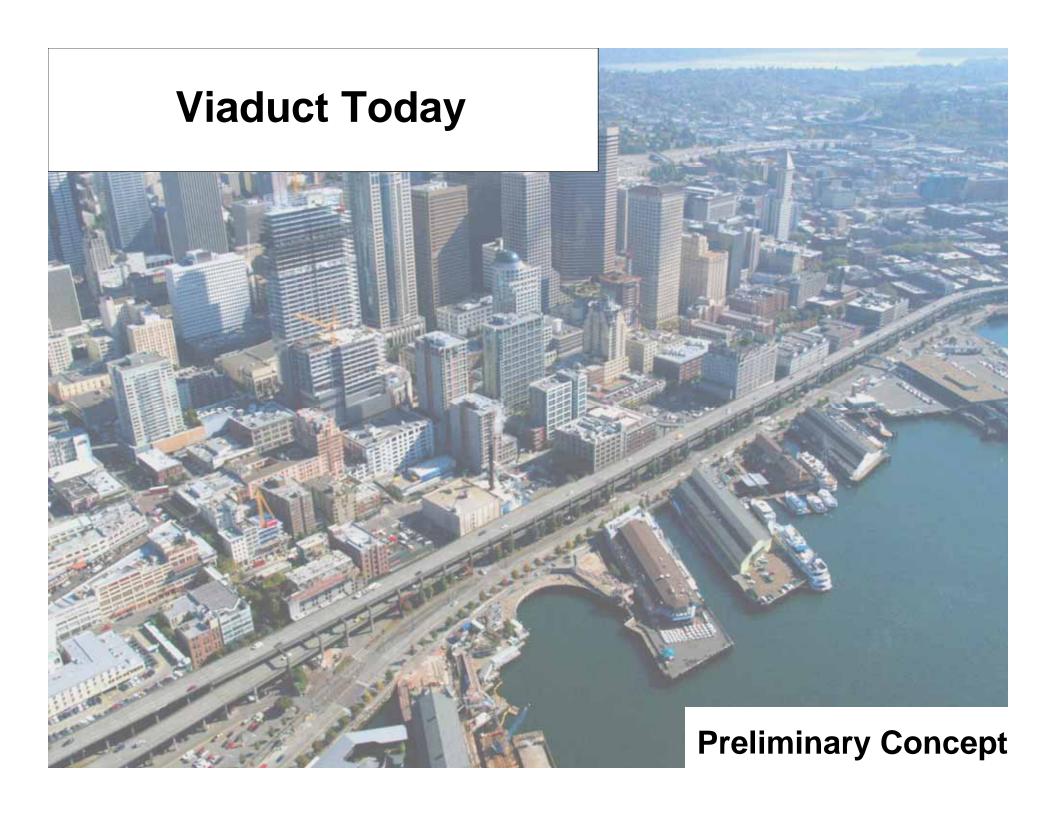


ALASKAN WAY VIADUCT & SEAWALL REPLACEMENT PROJECT
Elevated Structure Alternatives Option Nine
Looking West down Marion Street Viewed from First Avenue

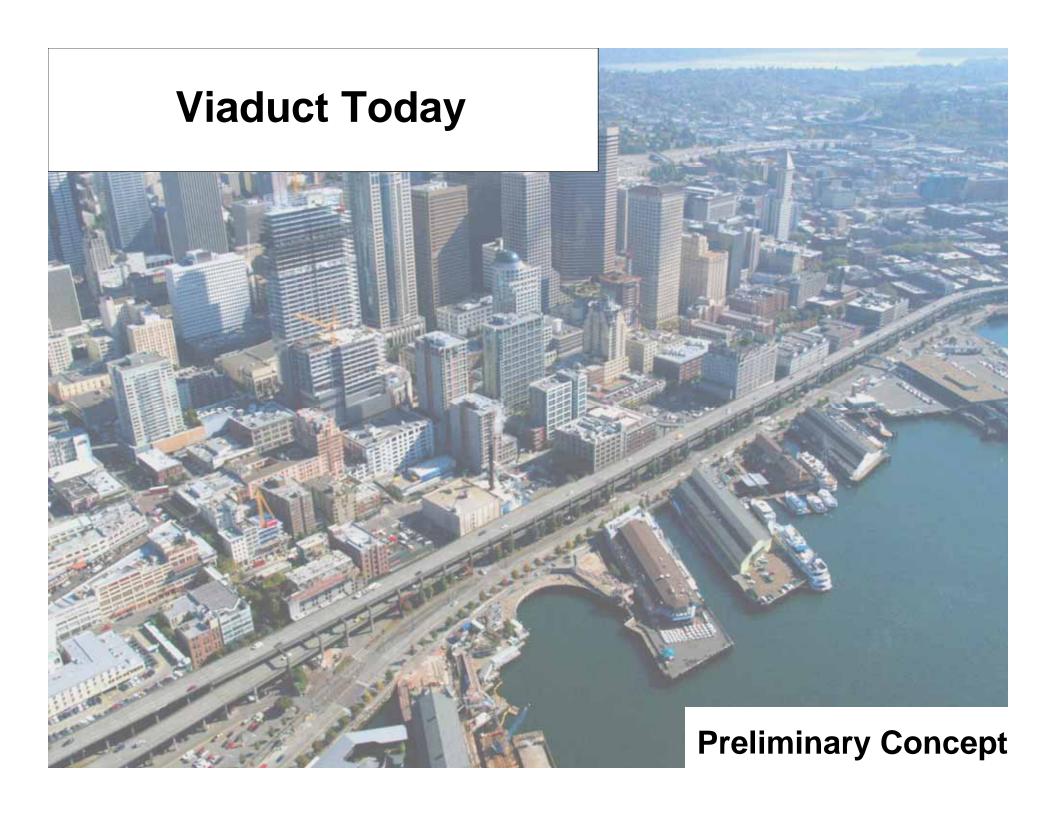
Alaskan Way Viaduct approximately twenty feet above waterfront. Seen at elevation shown from 1st Avenue.

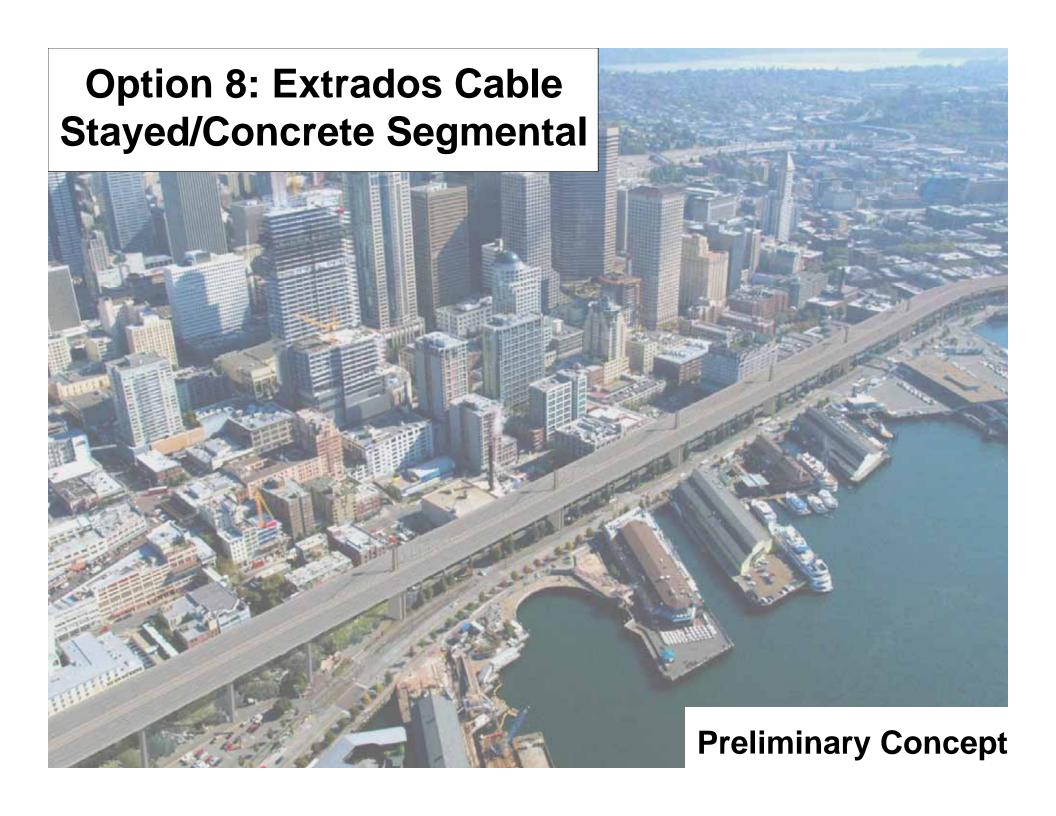


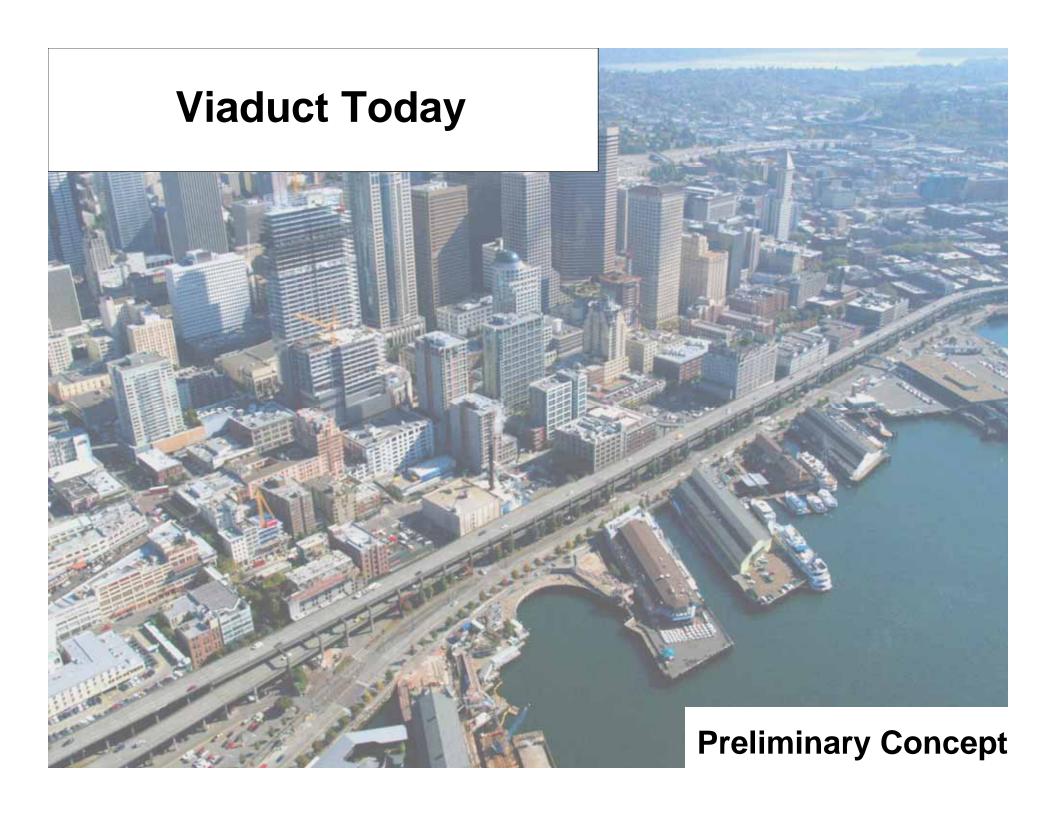
















Next Steps

- Develop cost estimates
- Develop designs for connections to Battery Street Tunnel and south end interchange
- Confirm existing construction plans

